

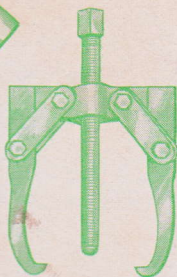
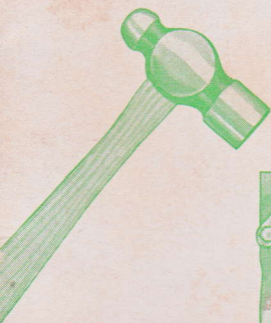
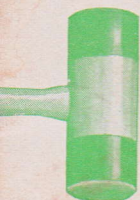
MAC

Quality

TOOLS



GREER SUPPLY
2043 HARNEY — OMAHA



MAC ALLIED TOOLS
CORPORATION

P. O. Box 36 Emmett Road
AKRON 5, OHIO

GUARANTEE

All tools in our line are designed and manufactured to withstand requirements of the job for which they were intended. Our tools are guaranteed to do this job. Please note certain tools shown are marked "Not Guaranteed" which is necessary because of the nature of the tool and which is customary. Every tool we sell is guaranteed against defective workmanship or material and will be replaced when proven so within these limits.

We cannot replace tools that are worn out because of use; tools made obsolete by changes in design required by new model cars; tools which have been abused or used carelessly; or tools which the mechanic has attempted to redesign.

We know the mechanic will be reasonable and fair in the matter of replacements, as so shall we.

Final judgment as to whether a tool should be replaced rests with our adjuster working through our Authorized MAC Distributors. The policy as to guarantee is for your protection and will be carried out on the basis of mutual fair dealing.

Copyright 1947 Mac Allied Tools Corp.



Printed in U. S. A.

Introduction



The Mac Allied Tools Corporation is affiliated with The Mechanic's Tool & Forge Company of Sabina, Ohio. The tools as illustrated in this catalogue are sold by regular authorized "MAC DISTRIBUTORS" throughout the entire United States, serving the "PROFESSIONAL MECHANIC".

Our policy is and shall continue to be one enabling us to furnish our customers the Finest Tool made at the most reasonable price possible. Our method of selling makes possible better Service and Quality Tools by eliminating all possible overhead.

"MAC TOOLS" are sold everywhere. Look for the trade name as shown on the front and back cover pages of this catalogue. In purchasing "MAC TOOLS" you will insure yourself the ownership of tools of Proven Quality, with continued unequalled service by experienced and trained representatives.

Management of "MAC ALLIED TOOLS CORPORATION" is by men who have been in the Mechanics Hand Tools business for many, many years. They are equipped with valuable experience which assures sound judgment with regard to the tools in our line being of proper design and quality for their intended use.

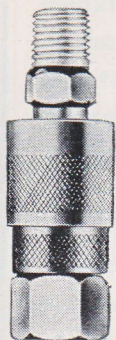
We have grown rapidly due to quality of "MAC TOOLS" and service given by "MAC TOOL DISTRIBUTORS", as well as to the confidence our customers have given our line. We thank you for this support and hope to serve you long and well.

MAC ALLIED TOOLS CORPORATION

"MAC" ALLIED TOOLS

Airline Tools and Fittings

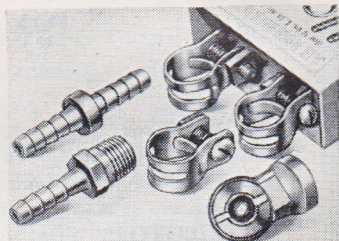
Kwik-Change Couplers with both Male and Female Plug connections save valuable time. These are used with all air operated equipment such as Blo-Guns, Paint Sprayers, Air Hammers, etc. These items listed below are a necessity for garages and service stations.



711



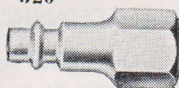
108



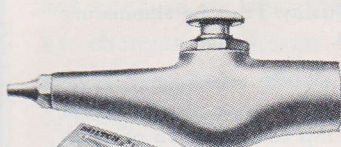
520



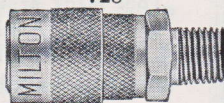
867
868



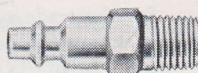
728



107



716



727

- 711 Kwik Coupler and Plug
- 716 Male Coupler Body
- 727 Male Plug Only
- 728 Female Plug Only
- 107 Blo-Gun

- 108 4-in. Blo-Gun Extension
- 520 Air Hose Repair Kit.
- 867 Neoprene Washer for Air Lines
- 868 Neoprene Washer for Blo-Gun

Ford-Chevrolet-G.M.C. Trucks Axle Housing Dies

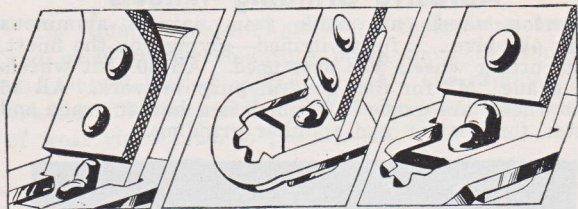


Place the die on the back of the thread and back off through the damaged thread. This tool is made from alloy steel and thoroughly heat-treated. It is another "TOUGH TOOL FOR TOUGH JOBS" and will stand the gaff.

- RD- 5—Chev. Truck 2 1/8 - 16
- RD-10—Ford Truck, Federal Truck..... 2 1/4 - 16

PROVEN QUALITY

Battery Carrier



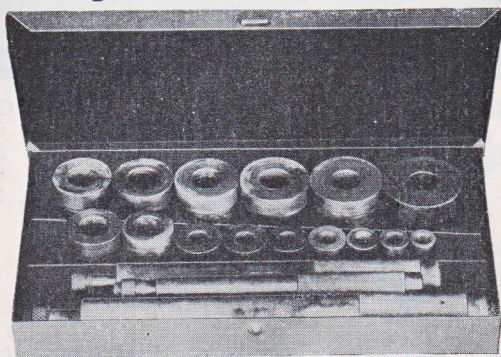
SureGrip self-locking ends positively hold the heaviest battery without danger of slipping. The greater the weight the tighter they grip. **EXTRA LONG** to handle the new 20" batteries.

BL- 5—Short Type Cells assembled side by side

BL-10—Long Type Cells assembled end to end

Drive-M-All

Bushing Remover and Replacing Set



These tools are made of a high grade steel, heat treated and tempered for hard use and long life.

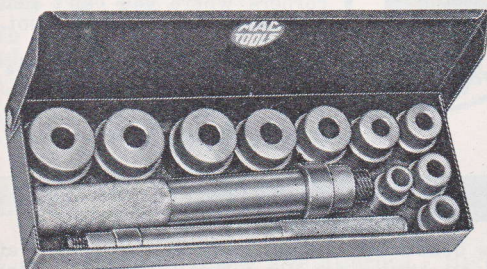
The outside diameters are perfectly true with each other.

A practical bushing remover and replacing set designed to meet the demand of the up-to-date garage.

Drives All Passenger Car Bushings and a Large Percentage of Truck and Tractor Bushings

No. 875

General Purpose Bushing Service Set



Specially designed to remove and replace regular as well as the extra thin bushings in all popular sizes from $\frac{1}{2}$ to $1\frac{1}{8}$ ID. Handles for this set are sized to be used to remove and replace $\frac{5}{16}$ and $\frac{3}{8}$ valve guides.

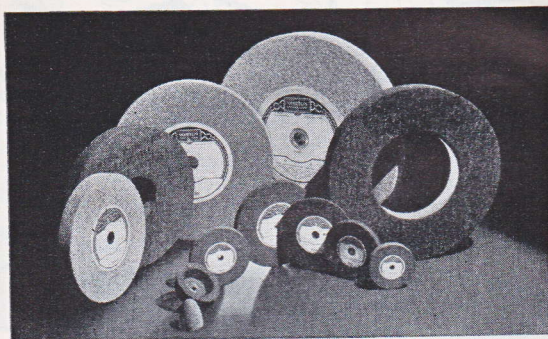
No. BD-72—Set complete in case

Weight $3\frac{1}{4}$ lbs.

"MAC" ALLIED TOOLS

Abrasive Grinding Wheels

Norton wheels are made from natural aluminous oxide abrasive . . . fully vitrified—giving you the finest, best cutting wheels you ever used. All 60 Grit wheels are grade "M" for fine general purpose work. All 36 Grit wheels are grade "O" which is a harder grade and better for heavier and rougher grinding.



| Ord. No. | Diameter | Width | Arbor | Grit |
|----------|----------|-------|-------|------|
| GW8 | 6" | 1/2" | 1/2" | 60 |
| GW10 | 6" | 1/2" | 1/2" | 36 |
| GW12 | 6" | 3/4" | 1/2" | 60 |
| GW14 | 6" | 3/4" | 1/2" | 36 |

Flexible Wire Carbon Scraper



This Scraper has a claw-like end that scrapes clean and deep. Being flexible, it goes into all curves of cylinder heads. You get it all with this scraper.

The springs are made strong with oil-tempered spring wire. They fit the curve of every piston head without fail.

Order No. CS-10—10" Long, 1" Wide.

Flexstone

"GETS to the POINT"

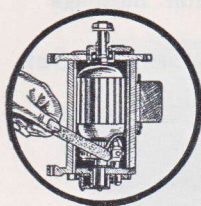
Can be bent or twisted and won't break. You can use it in awkward corners where you can't get with a steel "point file." Will not short circuit.

Order No. FS-1—Length 4 1/2"

Order No. FS-2—Length 4 1/2"

.025" Thick

Point Files



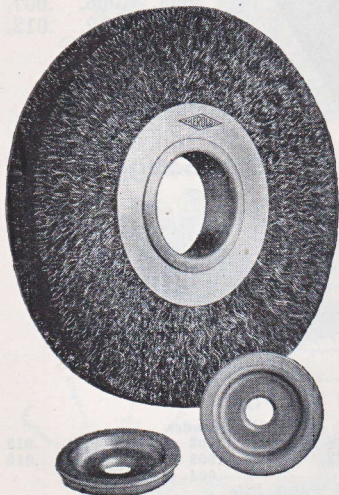
This double cut Tungsten file is the type preferred by all mechanics for filing breaker points. Has the "finger hold" on the end of handle.

| Order No. | Length Cut | O. A. Length |
|-------------------|---------------|-----------------|
| PF- 5 | 2 3/4" | 5" |
| PF-10—.025" Thick | 2 3/4" | 5" |

PROVEN QUALITY

Heavy Duty Wheel Brushes

The Quality material used for these wire brushes and excellent workmanship make them the toughest and longest lasting on the market. The crimped wire bristles will wear evenly, thus giving maximum amount of wear right down to the arbor.

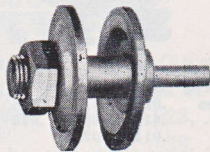


| Ord. No. | Dia. |
|----------|------|
| WW-4 | 4" |
| WW-6 | 6" |
| WW-8 | 8" |

Any size may be had in any size arbor hole, from $\frac{1}{2}$ " up. When ordering be sure to specify Arbor Hole.

ADAPTER FOR DRILL CHUCK

A sturdy adapter for mounting wheel and cup brushes to a drill chuck. Can be had with $\frac{1}{4}$ ", $\frac{3}{8}$ " or $\frac{1}{2}$ " shank. Cadmium plated for rust prevention.



| Ord. No. | Size |
|----------|-----------------|
| CA-1 | $\frac{1}{4}$ " |
| CA-2 | $\frac{3}{8}$ " |
| CA-3 | $\frac{1}{2}$ " |

Heavy Duty Carbon Cleaning Brushes

"Cable Twist" carbon or end brush is made of high strain music type wire tightly twisted into knots securely fastened into a 1" diameter metal cup and fitted with a $\frac{1}{4}$ " diameter spindle shank. Brush part extends $1\frac{1}{4}$ " out.

We also carry the Carbon Cleaning Brush in crimped wire not twisted. No. WB-1.



Order No. WB-5

Hand Wire Brush

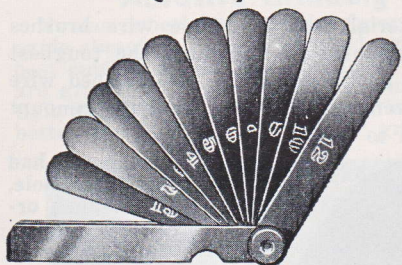


Wire Brush with Screw Eye attached. High grade brush with long curved handle. Prevents injury to operator's hand. Just what you need for cleaning dirt, dust and other foreign matter from rims and wire wheels.

Order No. WB-10—Length 14"

"MAC" ALLIED TOOLS

Quality Feeler Gauges

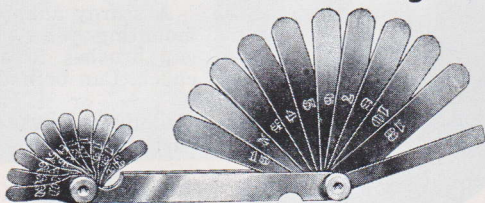


10 BLADE GAUGE

10 Blade, 3½" long
Contains 1 each
.002, .003, .004,
.005, .006, .007,
.008, .010, .012,
.015.

Order No.
FG-1

Combination Feeler Gauge



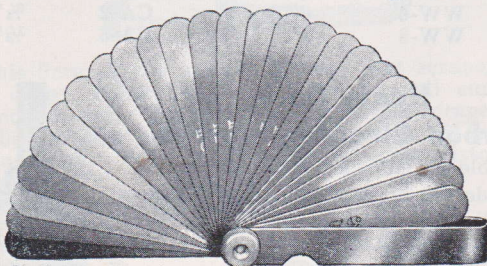
Order No. FG-2

10 1¼" Blades
Sizes .012 .018 .024 .028
.013 .020 .025 .032
.014 .022

10 3½" Blades
Sizes .002 .005 .008 .013
.003 .006 .010 .015
.004 .007

1 Coil Point File

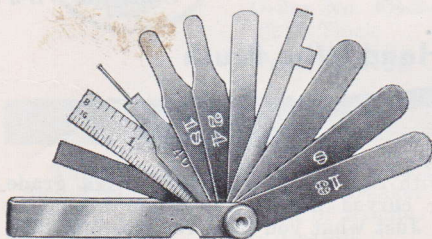
Master 25-Blade Gauge



Order No. FG-3

Sizes: .0015 .002 .003 .004 .005 .006 .007 .008 .009 .010
.011 .012 .013 .014 .015 .016 .018 .020 .022 .024
.025 .028 .030 .032 .035

Special Chevrolet Feeler Gauge



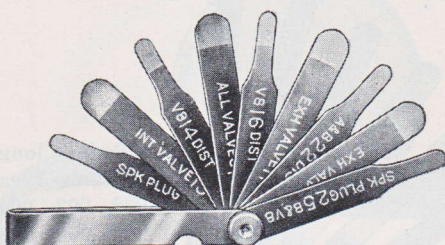
Order No. FG-4

Contains four
½" wide blades
— .006, .008,
.013 and .032
thicknesses;
three ¼" fin-
gers—.018, .024
and .040 thick-
nesses. Also a
carburetor
float depth
gauge, tungs-

ten file and 3" scale.

PROVEN QUALITY

Special Ford Gauge

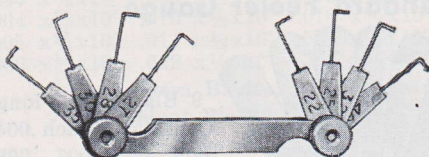


Order No. FG-5

on model "A," .016 for V-8 distributor, .014 with narrow end for V-8 distributor, .014 for all valves on V-8, .013 for valves on models "A" and "B," and .035 for spark plugs on model "A."

"Go and No-Go" Feeler Gauge — .025 for spark plugs on models "B" and V-8, .022 for valves on model "B," .022 with narrow tip for distributor on models "A" and "B," .017 for valves

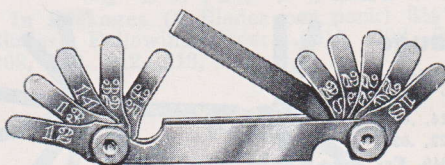
Spark Plug Gauge



Order No. FG-6

This Gauge consists of one each .022, .025, .027, .028, .030, .032, .035 and .040 Wire Gauges.

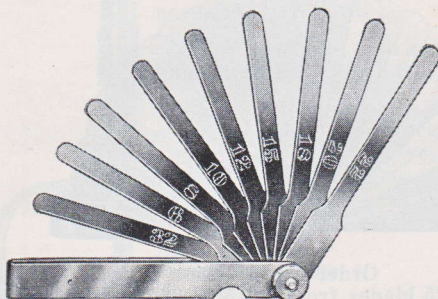
Ignition Gauge



Order No. FG-7

Blade Sizes
 .012 .013 .014
 .018 .020 .022
 .025 .028 .032
 .035 and File.

Brake Gauge

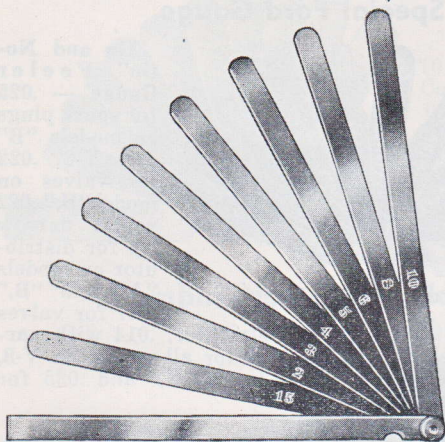


Order No. FG-8

Contains one each .006, .008, .010, .012, .015, .016, .020, .022, and .032.

"MAC" ALLIED TOOLS

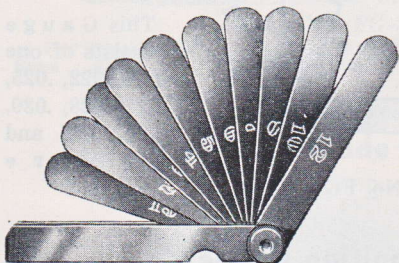
Piston Gauge



8 Blade, 9" long.
Contains 1 ea.
.002, .003, .004,
.005, .006, .008,
.010, .015.

Order No. FG-9

Standard Feeler Gauge

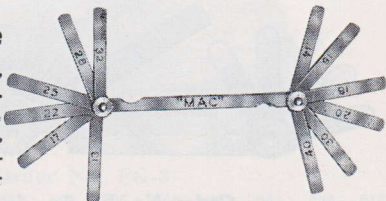


9 Blade, 3½" long.
Contains 1 each .004,
.005, .006, .007, .008,
.010, .011, .013, .015.

Order No. FG-16

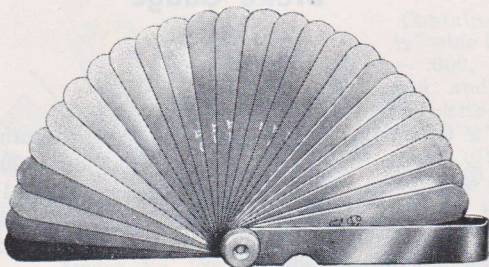
Ignition Gauge

Contains twelve blades,
1½" long, 3/16" wide.
One each .013, .014, .016,
.017, .018, .020, .022, .025,
.028, .030, .032, .040. Ev-
erything you need for
points and spark plugs.



Order No. FG-15

General Purpose Feeler Gauge



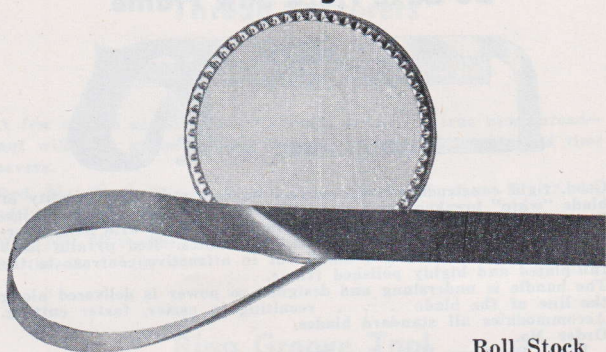
Order No. FG-25

Consists of 25 blades from .0015 to .025 inch inclusive.
Most complete for general repair and machine shop
practice.



PROVEN QUALITY

Feeler Gauge Stock



Roll Stock

Stock in 10' rolls, put up in convenient slotted boxes, in following sizes.

| Size | | Size | |
|-------------------|------------------|------------------|------------------|
| .0015 x 1/2 x 10' | .007 x 1/2 x 10' | .013 x 1/2 x 10' | .025 x 1/2 x 10' |
| .002 x 1/2 x 10' | .008 x 1/2 x 10' | .014 x 1/2 x 10' | .028 x 1/2 x 10' |
| .003 x 1/2 x 10' | .009 x 1/2 x 10' | .015 x 1/2 x 10' | .030 x 1/2 x 10' |
| .004 x 1/2 x 10' | .010 x 1/2 x 10' | .018 x 1/2 x 10' | .032 x 1/2 x 10' |
| .005 x 1/2 x 10' | .011 x 1/2 x 10' | .020 x 1/2 x 10' | .035 x 1/2 x 10' |
| .006 x 1/2 x 10' | .012 x 1/2 x 10' | .022 x 1/2 x 10' | .040 x 1/2 x 10' |

Extra Blades, Any Thickness
Individual Blades or Packages of Six
as shown below



Size

9" long x 1/2" wide.

3 1/2" x 1/2", 2 1/2" x 1/2", 1 1/2" x 3/16"

In Packages (6 Blades per pack) 3 1/2" Blades, 12" Blades. Following sizes: .0015, .002, .003, .004, .006, .008, .010, .012, .013, .015.

Feeler Stock Holders

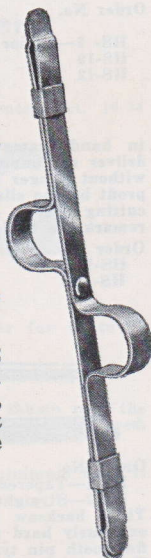
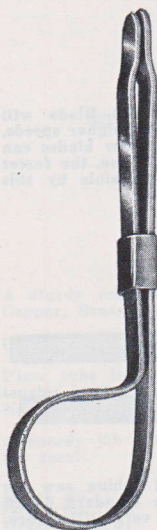
Holders are excellent for roll stock use. A small supply of any size stock can be kept in the single end, being pulled out as needed.

Our 12" Blades also are handy in these Holders.

The double end holds 2 sizes stock for valve work. One end for intake valves, the other for exhaust valves. Mechanics like these Holders.

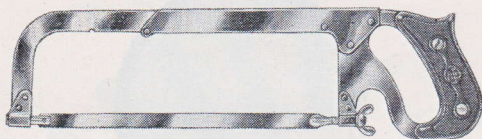
Order No. FG-10
Single End—Length 5 1/2"

Order No. FG-11
Double End—Length 6"



"MAC" ALLIED TOOLS

De Luxe Hack Saw Frame



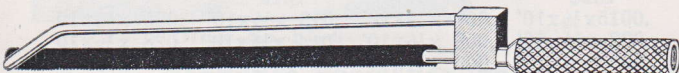
Good, rigid construction with perfect balance reduces possibility of blade "whip" breakage and make this hack saw easy to work with. The handle and rear portion are a one-piece design with hand aperture large enough for ample knuckle clearance. Red pyralin hand grips give a firm hold and stand out in attractive contrast to the full-plated and highly polished frame.

The handle is underslung and designed so power is delivered along the line of the blade . . . resulting in easier, faster cutting. Accommodates all standard blades.

Order No.

HS-5—De Luxe Hack Saw Frame.

Low Back Hack Saw



Low backed Hack Saw using all steel construction for 10" saw blades. All parts are fully heat treated, and the blade is adjustable through the handle in securing the desired tension.

Order No.

HS-3—Hack Saw.

Standard Hack Saw Blades



Made by special process from finest tungsten steel assuring tough, uniform temper and degree of hardness throughout the blade . . . They cut faster, easier, and retain their cutting power longer. Blades are the result of many years experience in blade manufacture and of the highest possible quality.

SOLD IN Dozen Lots Only.

Order No.

Length

HS- 6—Junior Blades—6" Length

HS-10 10" —24 Point

HS-12 12" —24 Point

High Speed Blades

In hand frame or power machine, the High Speed Blade will deliver maximum cutting service on any material, at higher speeds, without danger of shattering. Every user of hack saw blades can profit by the elimination of breakage, the saving in time, the faster cutting speeds, and reduction of accidents made possible by this remarkable blade.

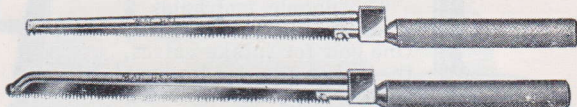
Order No.

Length

HS-10H 10"—24 Point

HS-12H 12"—24 Point

Junior Hack Saws



Order No.

HS-1—Tapered Back

HS-2—Straight Back

These hacksaw frames are the ideal bushing and tubing saw for extremely hard to reach places. Equipped with a standard 6-inch fine-tooth pin type blade—cuts smoothly—removes very little stock. Easy grip—non-slip, screw type handle adjusts blade tension. Plated and Rustproofed.



PROVEN QUALITY

Thread Restorers



A few strokes across battered threads produce a true new thread—nut will then go on easily. These tools are real trouble and time savers.

Ord. No. TR-1—Thread Restorer—has 8 thread sizes—11, 12, 13, 14, 16, 18, 20, and 24 threads to the inch.

Ord. No. TR-2—Thread Restorer—has 9, 10, 15, 16, 20, 26, 28, and 32 threads to the inch.

Ring Groove Tool



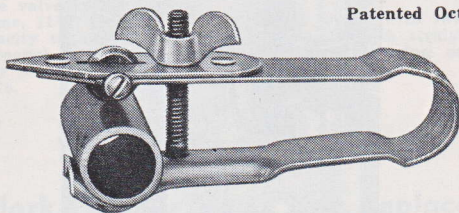
Careful Mechanics use STA-PUT RING GROOVE TOOL to clean or deepen grooves to promote better ring action. Experienced and Discriminating Mechanics use STA-PUT RING LAND TOOL to cut back piston lands because they know what a difference it makes in the job. Wise Mechanics use STA-PUT RING LAND TOOL to chamfer or bevel lands for they appreciate the value of added protection given their labor and rings.

| Order No. | Piston Size |
|-----------|------------------------------------|
| RG-1 | 2½" to 4½" Passenger Cars |
| RG-2 | 4½" to 6" Trucks |
| RG-7 | Land Reducing Cutter & Post |
| RG-11 | Cleaning & Deepening Cutter & Post |

Self Feeding Tube Cutter

With Reamer

Patented Oct. 16-34



A sturdy compact special spring steel tube cutter for ⅛ to ¾ Copper, Brass and Lead tubing.

Cutter and Reamer are made out of high grade tool steel.

Place tube in cutter and give ½ to ¾ turn of thumb nut, the tension in the frame giving a gradual feed until the tube is severed. No added turn on the thumb nut is necessary.

A speedy job without denting the tubing and a minimum burr is the result.

| | |
|---------------|-----------------------|
| Order No. TC1 | 4½" long, ½" Capacity |
| Order No. TC2 | 5" long, ¾" Capacity |
| Order No. TCC | Cutter Wheel Only |

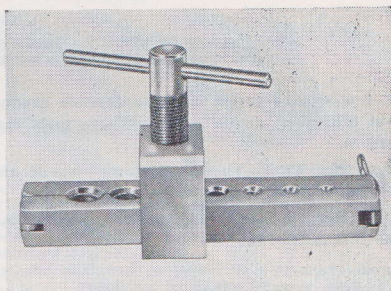
"MAC" ALLIED TOOLS

Tube Flaring Tool

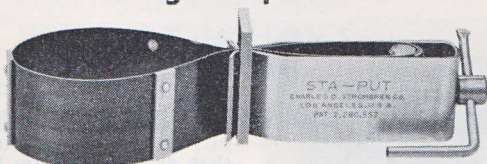
Tube flaring job is good . . . when you use this tool. A compact, well made unit, it will flare brass, copper or aluminum tubing to make S. A. E. flared joints without splitting. The gripping jaws are knurled. This prevents tube slippage during flaring operation. Takes tube sizes $\frac{1}{8}$ ", $\frac{3}{16}$ ", $\frac{1}{4}$ ", $\frac{5}{16}$ ", $\frac{3}{8}$ ", $\frac{7}{16}$ " and $\frac{1}{2}$ " O.D.

FT9—

Tube Flaring Tool



Ring Compressors



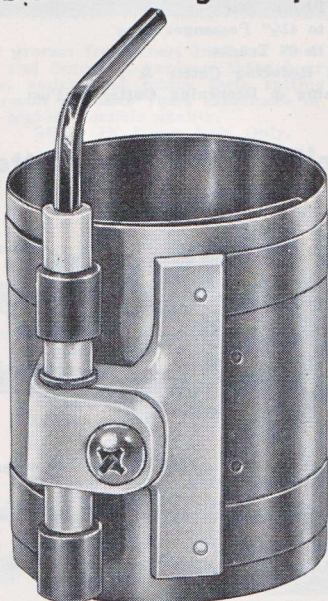
The STA-PUT Piston Ring Compressor incorporates every practical mechanical essential needed for efficiently installing all types of piston rings in modern automobile engines.

The ultra-simplicity and the fundamental mechanics which give this Piston Ring Compressor so many advantageous qualifications should be easily recognized by all skilled mechanics.

STA-PUT Piston Ring Compressors are unconditionally guaranteed to please the most highly skilled and exacting mechanics installing piston rings.

No. RC1

Double Band Ring Compressor



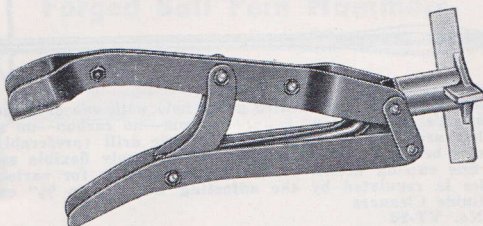
CUT RC5

The 3" band gets those rings just below the wrist pin. $\frac{1}{4}$ " clearance between the end of the shaft and the band. Band and tapes are clock spring steel. Tapes are hooked into the hollow shaft thru slots. Main band is notched so it will not follow the piston. Bracket is of solid aluminum.* Fillister head screw. Adjust this screw for drag, then leave it alone, as just a little drag will hold it.

No. RC5T—Extra Band and Rivets.

PROVEN QUALITY

Little Shorty Valve Lifter

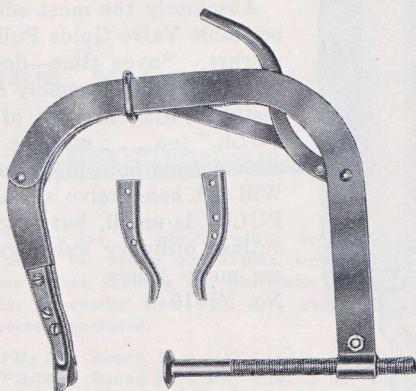


One hand easily lifts any valve in tight places with the "Little Shorty."

It lifts valves adequately, and STILL LEAVES ENOUGH ROOM TO REPLACE LOCKS WITH EASE.

Ord. No. CF-12 Length 8½"

"C" Type Valve Lifter



This "C" type Valve Lifter is constructed so the handle is out of the way of the hood tie-rod. The floating ring holds the lifter in any compressed position. Threaded valve stem can be adjusted for any valve lengths. Straight and "off step" jaws for use where space is limited. Has a depressed foot with centering point to hold it securely on a valve head. For Overhead or L-head motors. The slim, strong adjustable jaws give most room to remove or replace the valve keys.

"C" frame, 11½" inside depth, 8¼" inside width, with 10½" opening capacity with offset jaws, 11½" capacity with straight jaws, allows enough clearance to operate without removing manifolds, especially on motors having down draft carburetor.

Order No.

| | |
|-------|-------------------------------|
| CF11 | With Straight and Offset Jaws |
| CF21P | Straight Jaws Only |
| CF22P | Offset Jaws Only |

Clark-Feather Valve Key Replacer

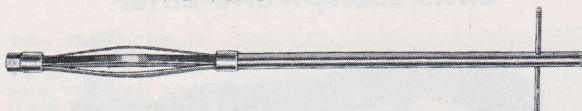


Holds the keys firmly. This is the surest tool to return the locks to the valve stem. Replaces the small ribbed keys for Plymouth, Dodge, Chrysler, De Soto, Oldsmobile, Pontiac, and other motors. To load push center and forked bars to forward positions. Open a jaw and place key in jaw cup. Replaces the keys at any angle. Mechanics demand this replacer.

CF-7

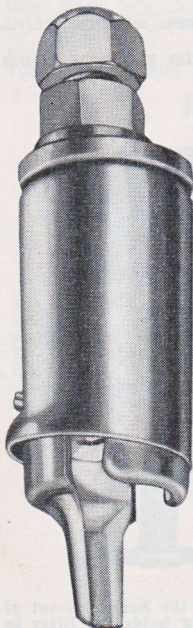
"MAC" ALLIED TOOLS

Valve Guide Cleaner



When you've cleaned out a valve guide hole with one of these tools, you know it's really clean . . . no gum—no carbon—no scale is left. They are built to work in an electric drill (preferably $\frac{1}{4}$ "). The blades being flat spring stock are extremely flexible and give a very fine cutting action . . . correct tension for various sizes of guides is regulated by the adjusting nut. $\frac{1}{16}$ to $\frac{5}{8}$ " capacity.

Valve Guide Cleaners
Order No. VT-20

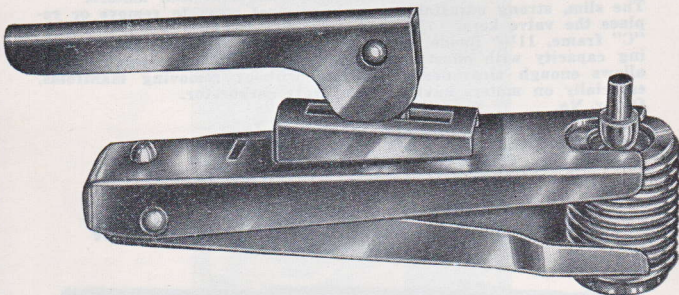


V-8 Valve Guide Puller

Absolutely the most efficient, dependable Valve Guide Puller on the market. Saves time—does a better job. Valve assembly can be re-installed with the use of "VALV-PULL," too . . . without removing carbon from bore in cylinder block. Will not bend valve stem. "VALV-PULL" is small, but mighty. Will outlast ordinary valve guide pullers many times.

No. VP-10

Chevrolet Valve Spring Compressor



Designed to fit all Overhead Valve Spring Motors that are within range of the tool.

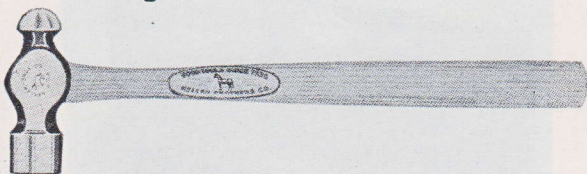
It's easy to compress valve springs when you use this tool for the job. It is designed with an adjusting wedge which has three positions for adjusting the opening and closing space between the jaws. A specially designed lever will automatically lock itself, so that it is not necessary to hold the handle while removing the keepers. The smooth, streamlined, round finished end prevents cutting, scratching, or injury to the hand when putting the jaws into the springs.

Order No. VC-30



PROVEN QUALITY

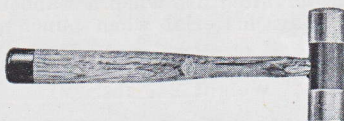
Super Quality Forged Ball Pein Hammers



Machinists' Ballpein Hammers of splendid workmanship, temper and style. Well balanced and will give excellent service.

| TOOL NO. | WEIGHT LBS. | EACH OZS. | TOOL NO. | WEIGHT LBS. | EACH OZS. |
|----------|-------------|-----------|----------|-------------|-----------|
| BH- 2 | | 2 | BH-20 | 1 | 4 |
| BH- 4 | | 4 | BH-24 | 1 | 8 |
| BH- 8 | | 8 | BH-32 | 2 | |
| BH-12 | | 12 | BH-40 | 2 | 8 |
| BH-16 | 1 | | BH-48 | 3 | |

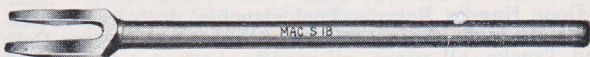
Plastic "MacLoid" Tip Hammers



Soft, but tough tips of plastic which are easily replaceable. Especially useful for fitting piston pins, wrist pins, gears, bearings, tapping valves, ignition and distributor work. Two popular sizes. Center is quality steel with first quality hickory handle, which is securely anchored.

| | |
|------------------|-------------------------------------|
| Order No. PH- 8 | Round Face 1¼" Dia. ½ lb. 11¾" Long |
| Order No. PH-16 | Round Face 1¾" Dia. 1 lb. 11¾" Long |
| Order No. PH- 8A | Extra Tips for ½ lb. |
| Order No. PH-16A | Extra Tips for 1 lb. |

MAC Tie Rod Spreader and Pitman Arm Spreader



Works on the wedge principle and will spread the toughest clamp. Opening is forged 11/16" wide to straddle bolts on Ford, Chevrolet, etc. Is also used to spread shock absorber link clamps. Heat treated and guaranteed.

Order No. TS-38—Tie Rod Tool



Order No. PR-40—Pitman Arm Spreader

"MAC" ALLIED TOOLS

Gasket or Hollow Punch Set

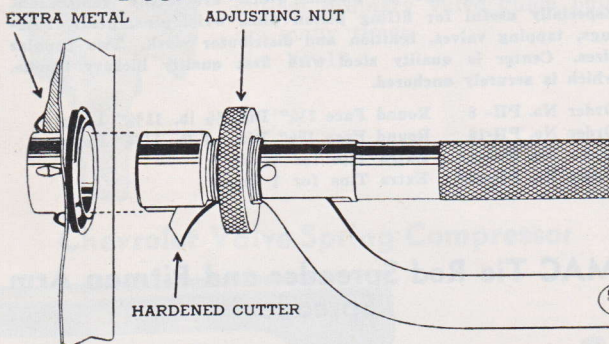


Seven popular sizes from $\frac{1}{4}$ to $\frac{5}{8}$ inch inclusive in compact metal case. This is a really serviceable set and will stand unlimited use when a Babbet or wooden block is used under material when punching holes in gaskets.

Order No. 79-P—Set complete in case.

Weight $2\frac{1}{4}$ lbs.

Door Handle Ferrule Tool

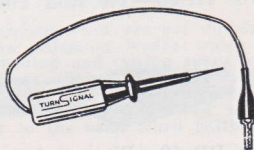


Door Handle Ferrule Tool attaches door handle ferrules **Rigidly**. Adjustable for all General Motors Cars and Trucks, all years, all models, both wood and steel construction. Special adjusting nut permits tight installation of ferrule on repaired door panels and rear deck lids that have been built up unevenly by welding or with body solder.

Order No. HT-19

Electric Testing Tool

For Testing:
Shorts or breaks
in wiring. Radio
circuits. Connections.
Fuses—
Bulbs. Armatures
—Fields. Dead
battery cells. Ignition
Timing. Stuck Points.
Ground circuits.
Switches.



Order No. ET-100

PROVEN QUALITY

Motor Tune-Up Set



No. TK-5—Complete Set as shown above.

Vacuum Gauge

Vacuum Gauge shown above is a necessary instrument in checking motors. The dial is calibrated and marked in different colors to indicate the trouble. The gauge is also used in checking faulty fuel pump pressure.

The vacuum and fuel pump gauge detects engine trouble from leaky manifolds to weak valve springs.

Normal motor and fuel pump divisions are outlined in green.

Faulty motor divisions are outlined in red. The red section is further subdivided showing "Leaky Manifold," "Heat Riser" and "Late Ignition or Carburetor Adjustment." Adjustable restriction screw controls the indicator vibrations, assuring accurate readings. Hose included with tool.

No. VG-5

Compression Tester

Registers from zero to 200 pounds compression per square inch and holds the highest compression reading until release button returns the reading to zero. Gauge therefore can be removed from the spark plug hole for reading. Dial is calibrated into 5-pound divisions. Cone adapter not affected by grease or gasoline. For all spark plug holes.

No. CT-5

Timing Light

Rugged case will take hard usage given this tool during work.

The lens construction lights up strong showing tim-

"MAC" ALLIED TOOLS

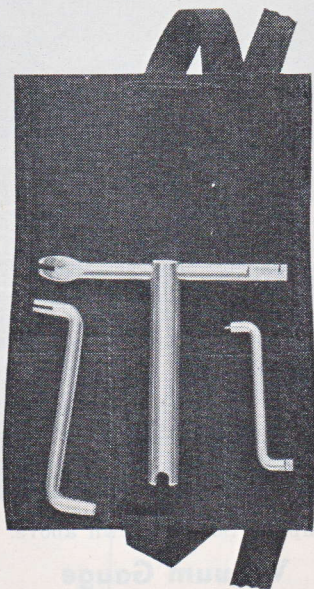
ing marks sharply, brilliant enough to spot the timing marks exactly, to get perfect tune-up job. Gives a wide range of brilliance for spark plug testing.

No. TL-5

Sold as set complete in Metal Box or Individual Items.

No. TK-5B—Metal Box Only.

Tune-O-Kit



These tools designed for work on Delco-Remy or Autolite distributors, and others.

One for Stationary Contact aligning, raising, and bending arm.

Offset driver for V-8 Distributor 1937 model on.

Third tool for bending spring anchor on any voltage regulator, to exact degree.

TU-119—Contact Aligning Tool.

TU-126—Voltage Regulator Tool.

TU-139—V-8 Distributor-Offset Driver.

TU-160—Complete Set as shown above.

Spark-Testing Screw Drivers

(Not Replaceable)

Brilliant Orange Flash, Plug O. K. Stringy Flash, Plug Partly Fouled. No Flash, Dead Plug.

Pyrolin Handle Shock Proof



Order No. ST-4—Length 4"

Order No. ST-4T—Tube Only

Pyrolin Handle Shock Proof
Vest Pocket Size



Order No. ST-2—Length 5¼"



PROVEN QUALITY

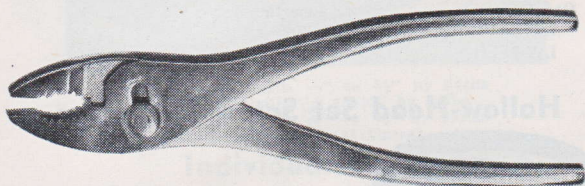
WELLOCT POSITIVE Self Gripping Pliers

with a New Phenomenal Principle of Design

The WELLOCT principle provides self gripping with NON-SLIP action and vise type grip, requiring very little hand pressure. Slight opening or closing of the jaws is all that is required for adjustment.

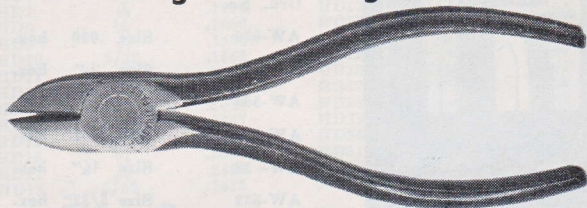
The WELLOCT patented adjustment feature gives extra strength to the tool, making it decidedly stronger than any tool of similar jaw movement on the market, yet offering a simple adjustment and free movement of the jaws. Mechanics acclaim WELLOCT Tools to be a progressive step in efficiency and ease of operation. All WELLOCT tools are forged from Chrome Nickel Alloy Steel and are hardened and tempered by the latest scientific methods, assuring constant uniformity and durability. Fully guaranteed against defects in workmanship and material.

Combination Pliers



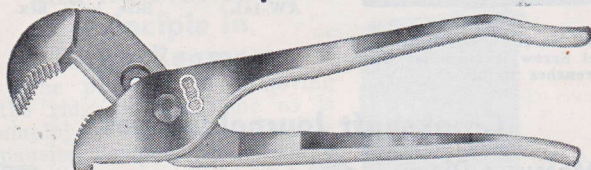
Order No. (216-6") (218-8") (210-10")

Diagonal Cutting Pliers



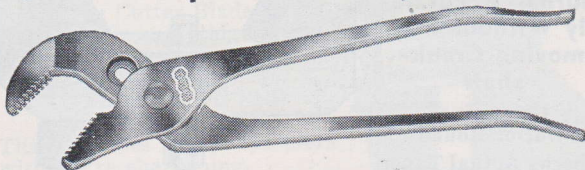
Order No. (616-6") (617-7")

Pipe Plier



Order No. 290—9" Length.

General Purpose and Pump Nut Pliers



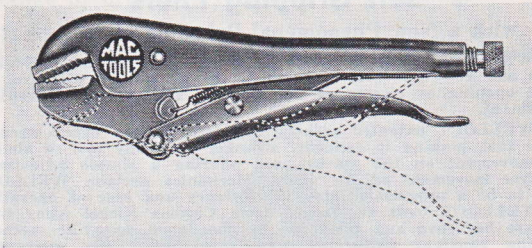
Order No. 200—9½" Length.

Battery Plier

Order No. 207—7" Length.

"MAC" ALLIED TOOLS

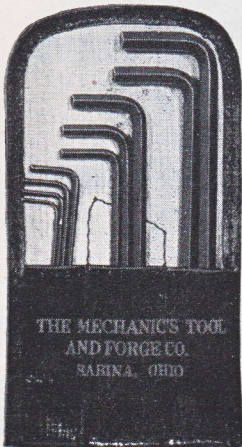
Mac Lock Wrench Plier



Mac Lock Wrench is a solid, trim, adjustable wrench with tremendous gripping power, locks with a vise-like grip that will not slip. Hundreds of uses for this tool.

| Order No. | Length |
|-----------|--------|
| LW-1 | 10" |
| LW-2 | 7" |

Hollow-Head Set Screw Wrenches



Individual Wrenches

| Ord. No. | Size | hex. |
|----------|------------------|------|
| AW-050 | .050 | hex. |
| AW-116 | $\frac{1}{16}$ " | hex. |
| AW-564 | $\frac{5}{64}$ " | hex. |
| AW-332 | $\frac{3}{32}$ " | hex. |
| AW- 18 | $\frac{1}{8}$ " | hex. |
| AW-532 | $\frac{5}{32}$ " | hex. |
| AW-316 | $\frac{3}{16}$ " | hex. |
| AW-732 | $\frac{7}{32}$ " | hex. |
| AW-14L | $\frac{1}{4}$ " | hex. |

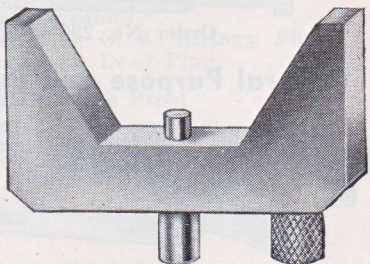
Ord. No. KAW—Hollow Head Set Screw Wrench Set (nine wrenches in all).

Crankshaft Journal Gauges

Measures Diameter of Crankshaft Main Bearing Journal Accurately Without Removing Crankshaft

Determines Out-of-Round

Checks Actual Taper

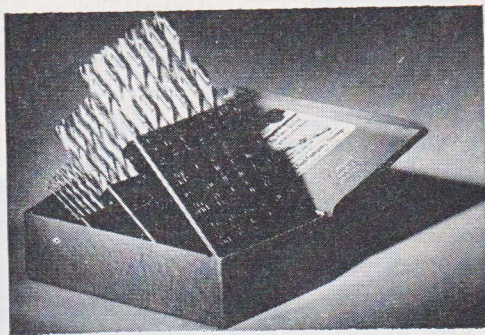


| NO. | Complete Instructions with Each Tool |
|------|--------------------------------------|
| CG-1 | To Check Diameters 1.970" to 2.550" |
| CG-2 | To Check Diameters 2.470" to 3.250" |
| CG-3 | To Check Diameters 3.220" to 4.125" |

PROVEN QUALITY

Drill Sets (High-Speed) Straight Shanks

These Drills are of the Highest quality and manufactured under most exacting requirements and specifications. All sets are supplied in Hinged Holders as per illustration. Drills can be purchased individually also. Please note the three different sets put up in sizes to meet your requirements. These are all High Speed Drills.



DM- 1 29 Drills $\frac{1}{16}$ " to $\frac{1}{2}$ " by 64ths
 DM- 3 13 Drills $\frac{1}{8}$ " to $\frac{1}{4}$ " by 64ths
 DM-15 15 Drills $\frac{1}{16}$ " to $\frac{1}{2}$ " by 32nds

(All Sets in Metal Cases)

Individual Drills

| No. | Drill Size Inches | Dec. Equiv. Inches | No. | Drill Size Inches | Dec. Equiv. Inches |
|------|----------------------|-----------------------|------|----------------------|-----------------------|
| HD4 | $\frac{1}{16}$ | .0625 | HD19 | $\frac{19}{64}$ | .2969 |
| HD5 | $\frac{5}{64}$ | .0781 | HD20 | $\frac{5}{16}$ | .3125 |
| HD6 | $\frac{3}{32}$ | .0937 | HD21 | $\frac{21}{64}$ | .3281 |
| HD7 | $\frac{7}{64}$ | .1094 | HD22 | $\frac{11}{32}$ | .3437 |
| HD8 | $\frac{1}{8}$ | .1250 | HD23 | $\frac{23}{64}$ | .3594 |
| HD9 | $\frac{9}{64}$ | .1406 | HD24 | $\frac{3}{8}$ | .3750 |
| HD10 | $\frac{5}{32}$ | .1562 | HD25 | $\frac{25}{64}$ | .3906 |
| HD11 | $\frac{11}{64}$ | .1719 | HD26 | $\frac{13}{32}$ | .4062 |
| HD12 | $\frac{3}{16}$ | .1875 | HD27 | $\frac{27}{64}$ | .4219 |
| HD13 | $\frac{13}{64}$ | .2031 | HD28 | $\frac{7}{16}$ | .4375 |
| HD14 | $\frac{7}{32}$ | .2187 | HD29 | $\frac{29}{64}$ | .4531 |
| HD15 | $\frac{15}{64}$ | .2344 | HD30 | $\frac{15}{32}$ | .4687 |
| HD16 | $\frac{1}{4}$ | .2500 | HD31 | $\frac{31}{64}$ | .4844 |
| HD17 | $\frac{17}{64}$ | .2656 | HD32 | $\frac{1}{2}$ | .5000 |
| HD18 | $\frac{9}{32}$ | .2812 | | | |

Ridge Reamer Announcing a New and Revolutionary Principle in Ridge Reamers

The principle of removing the ridge is the same as is employed when using an expansion reamer; therefore, a smooth wall surface is achieved.

The elimination of the troublesome and continuous adjusting of the Cutter Blade as employed by many Ridge Reamers.

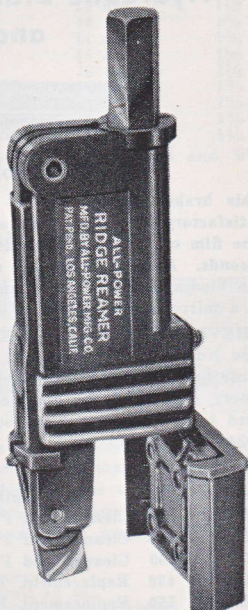
Featuring a CARBOLOY TIPPED CUTTER BLADE

That services many cylinders without re-sharpening.

RR-104—Ridge Reamer

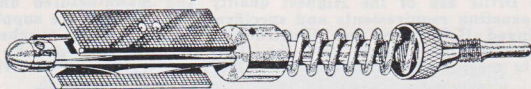
2.6" to 4" Cap.

RB-2—Extra Cutter Blade
Only



"MAC" ALLIED TOOLS

Hyland Hones



No. HH-20
Services Brake Cylinders
1" to 1½"

Hones Hydraulic
Brake Cylinders to
a Mirror Finish in a
Few Seconds.

**Saves Time
Low Price
Guaranteed**

This new Hyland
Hone featuring Car-
borundum Stones in
combination with
Fibre Blades pro-
duces a fast yet



smooth cutting tool for reconditioning Hydraulic Brake
Cylinders. Both Master and Wheel Cylinders are easily
reconditioned with this reasonably priced tool.

- No. HH10—Services Brake Cylinders ¾" to 1"
No. HH20—Services Brake Cylinders 1" to 1½"
No. HH30—Services Brake Cylinders 1½" to 2"
No. HH50—Set Services Brake Cylinders ¾" to 2"
Replacement Parts Can Be Supplied

Hydraulic Brake Cylinder Cleaner and Polisher



Cleans . . . Polishes . . . Guaranteed

This brake cylinder cleaner and polisher meets a demand for a
satisfactory method to clean or polish the inside of a brake cylinder.
The film of rust and muck is quickly, thoroughly cleaned in a few
seconds. Also by wrapping a small piece of emery paper around
the blades of the Cleaner and Polisher the cylinder can be honed
to a mirror finish in a very short time.

CHEVROLET SERVICE MEN:—

The No. 600 Tool makes an excellent method of re-sizing flange-
plate bushings on the Chevrolet knee-action cars. A small piece of
emery paper can be wrapped around the blades of the tool and
used to re-size flange-plate bushings on Chevrolet knee-action cars,
1934-38 inclusive.

Our Mfgr's.

| No. | No. | Description |
|--------|-----|---|
| BC-10 | 400 | Cleaner and Polisher—Services Cylinders 1" to 1½" |
| BC-15 | 500 | Cleaner and Polisher—Services Cylinders 1½" to 2" |
| BC-25 | 600 | Cleaner and Polisher, includes BC-10 and BC-15 |
| BC-10A | 450 | Replacement Polishing Heads Only |
| BC-15A | 550 | Replacement Polishing Heads Only |

PROVEN QUALITY

Hydraulic Brake Clip

Universal. Covers all passenger and commercial cars. Instantly adjusted to any size brake cylinder, within its range.

Squeeze the clip and let it come back into the Cylinder, before removing shoe. Tension applied by the clip will keep the pistons in position, preventing oil leakage and displacement of parts. Time and effort will be saved by clipping one on each cylinder until ready for reassembly. Leave each together.

Made of $\frac{3}{16}$ " hardened spring steel wire.

Order No.

BC-5



Knock-Off Wheel Pullers



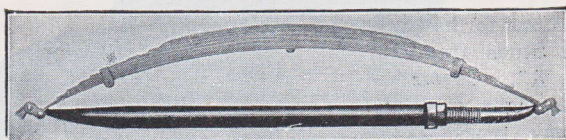
To use the "axle type" wheel puller simply screw it on end of axle shaft until it bottoms, then by striking the end of the puller a sharp blow with a heavy hammer the wheel is loosened. For best results jack up opposite wheel.

We do not claim any superlative powers for our wheel pullers, but we do feel that we have improved a tool that is misused more than any tool in a mechanic's box. Our pullers have been put to the test by the men who have to use them every day.

| Tool No. | Thread | Length | Weight | Hex Size |
|----------|----------|-----------------|---------|-----------------|
| W-1 | 5/8-18 | 2 $\frac{1}{8}$ | 10 ozs. | 1 $\frac{1}{8}$ |
| W-2 | 3/4-16 | 2 $\frac{1}{8}$ | 10 ozs. | 1 $\frac{1}{8}$ |
| W-3 | 7/8-14 | 2 $\frac{1}{8}$ | 14 ozs. | 1 $\frac{3}{8}$ |
| W-4 | 1-14 | 2 $\frac{1}{8}$ | 14 ozs. | 1 $\frac{3}{8}$ |
| W-5 | 13/16-16 | 2 $\frac{1}{8}$ | 14 ozs. | 1 $\frac{3}{8}$ |
| W-6 | 3/4-20 | 2 $\frac{1}{8}$ | 10 ozs. | 1 $\frac{1}{8}$ |
| W-7 | 7/8-16 | 2 $\frac{1}{8}$ | 14 ozs. | 1 $\frac{3}{8}$ |
| W-8 | 7/8-18 | 2 $\frac{1}{8}$ | 14 ozs. | 1 $\frac{3}{8}$ |
| W-9 | 1 1/8-12 | 2 $\frac{1}{8}$ | 14 ozs. | 1 $\frac{3}{8}$ |
| W-10 | 1 1/4-12 | 2 $\frac{1}{8}$ | 15 ozs. | 1 $\frac{1}{2}$ |

KW-12 Set consists of one each Nos. W-1, W-2, W-3 and W-4.

Ford Spring Spreaders



These tools are made from seamless steel tubing and axle shaft steel, to assure long, dependable service, hard usage. They will not buckle or break in use. One man alone is able to completely remove the rear end, while the tool holds the spring in place for re-assembly. The adjusting nut turns easily against the sturdy roller thrust bearing.

No. SS-25—For Front and Rear Springs,

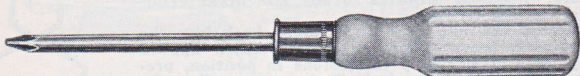
1935 to date. Shipping weight, 15 lbs.

(Also handles Lincoln-Zephyr rear springs)

"MAC" ALLIED TOOLS

Reed and Prince Screw Drivers

Among the various types of recessed head screws on the market is



the Reed and Prince cross slot screw which is becoming increasingly popular. This screw differs from the Phillips screw. The slots are such that each requires a special screw driver. Phillips screw drivers cannot be used successfully on Reed and Prince, or vice versa.

CATALOG NUMBER

BLADE LENGTH

BLADE DIAMETER

RP-700

3 in.

3/16 in.

RP-705

1 1/2 in.

1/4 in.

RP-710

4 in.

1/4 in.

RP-715

6 in.

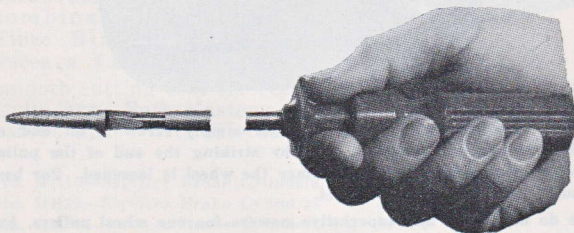
5/16 in.

RP-720

8 in.

3/8 in.

Screw Holding Screw Drivers



"IT REALLY HOLDS THE SCREW"

Shockproof-Unbreakable Plastic Handle.

Pentagonal Button Prevents Rolling.

High Carbon Spring Steel Blade with Hollow Ground Bit.

Strong "Rust-Resisting" Steel Tubing.

SH-4—4 in. x 1/4 in. Shank .035 in. Bit

SH-5—6 in. x 3/16 in. Shank .028 in. Bit

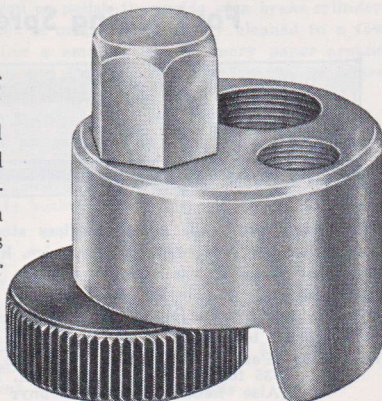
SH-6—6 in. x 1/4 in. Shank .035 in. Bit

SH-8—8 in. x 1/4 in. Shank .035 in. Bit

Stud Remover

A tool for handling all Studs from 1/4" to 3/4". Covers all passenger cars and many trucks. Designed to precision standards. Operates on gear principle for positive gripping.

SR-5



PROVEN QUALITY

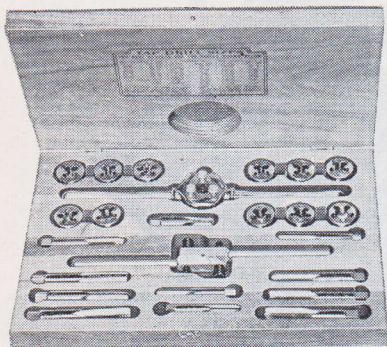
Scriber and Packing Hook



Scriber with Hardened Point—Other End designed for removing old packing from water pumps and replacing with new. Not guaranteed.

No. S-322

Tap and Die Sets



The set as shown consists of eleven taps and eleven dies which cover a range in S. A. E. and U. S. S. threads $\frac{1}{4}$ " to $\frac{1}{2}$ " with a $\frac{1}{8}$ " pipe tap and die.

Also Die Stock with Adjustable Guide and an Adjustable Tap Wrench.

The Adjusting Screw on Die will change size of die .001 to .003 over or under.

This is a High quality set containing the most necessary sizes required for Automobile Work. The Dies are adjustable making possible a loose or tight fit to the

Thread. This therefore provides advantages of solid die and those of Split Dies.

No. 46TD Set contains one each of the following units neatly packed in a fine wood box.

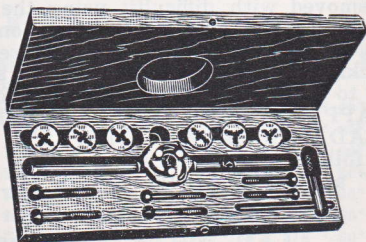
Order

| No. | |
|-----|-------------------------------|
| DS4 | Die Stock |
| TW1 | Adj. Tap Wrench |
| D2 | $\frac{1}{4}$ -20 U.S.S. Die |
| D4 | $\frac{5}{16}$ -18 U.S.S. Die |
| D6 | $\frac{3}{8}$ -16 U.S.S. Die |
| D8 | $\frac{7}{16}$ -14 U.S.S. Die |
| D10 | $\frac{1}{2}$ -13 U.S.S. Die |
| D12 | $\frac{1}{4}$ -28 S.A.E. Die |
| D14 | $\frac{5}{16}$ -24 S.A.E. Die |
| D16 | $\frac{3}{8}$ -24 S.A.E. Die |
| D18 | $\frac{7}{16}$ -20 S.A.E. Die |
| D20 | $\frac{1}{2}$ -20 S.A.E. Die |

Order

| No. | |
|-----|-------------------------------|
| T2 | $\frac{1}{4}$ -20 U.S.S. Tap |
| T4 | $\frac{5}{16}$ -18 U.S.S. Tap |
| T6 | $\frac{3}{8}$ -16 U.S.S. Tap |
| T8 | $\frac{7}{16}$ -14 U.S.S. Tap |
| T10 | $\frac{1}{2}$ -13 U.S.S. Tap |
| T12 | $\frac{1}{4}$ -28 S.A.E. Tap |
| T14 | $\frac{5}{16}$ -24 S.A.E. Tap |
| T16 | $\frac{3}{8}$ -24 S.A.E. Tap |
| T18 | $\frac{7}{16}$ -20 S.A.E. Tap |
| T20 | $\frac{1}{2}$ -20 S.A.E. Tap |
| T22 | $\frac{1}{8}$ " Pipe Tap |
| D25 | $\frac{1}{8}$ " Pipe Die |

The No. 22TD Machine Screw Tap and Die set carries six very popular size Machine Screw Taps and Dies. The set also contains the Adjustable Guide Die Stock and an Adjustable Tap Wrench of the Tee Type can also be used as a Reamer Wrench within its capacity.



No. 22TD. Set contains one each of the above units neatly packed in a fine wood box.

Ord. No.

| | |
|-------|----------------|
| MST5 | 4-36 M.S. Tap |
| MST10 | 6-32 M.S. Tap |
| MST15 | 8-32 M.S. Tap |
| MST20 | 10-24 M.S. Tap |
| MST25 | 10-32 M.S. Tap |
| MST30 | 12-24 M.S. Tap |
| DS2 | Die Stock |

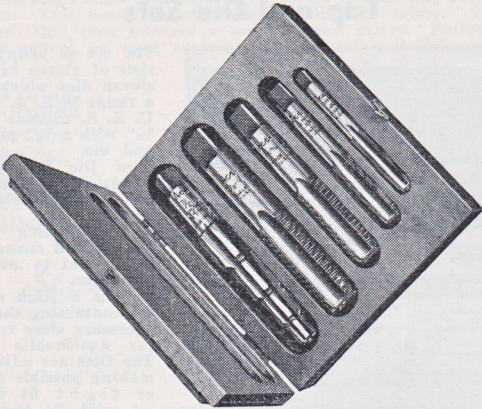
Ord. No.

| | |
|-------|---------------------|
| TW-2 | "T" Type Tap Wrench |
| MSD5 | 4-36 M.S. Die |
| MSD10 | 6-32 M.S. Die |
| MSD15 | 8-32 M.S. Die |
| MSD20 | 10-24 M.S. Die |
| MSD25 | 10-32 M.S. Die |
| MSD30 | 12-24 M.S. Die |

"MAC" ALLIED TOOLS

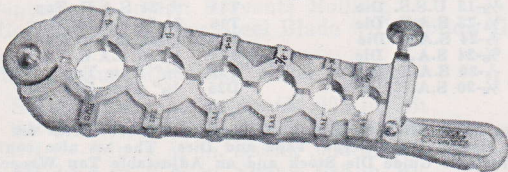
Spark Plug Threading Tools

Aluminum is a soft metal and threaded holes in it must be used with the greatest caution. A spark plug that is not started straight can easily strip the thread in the cylinder head. Most cylinder head pullers use the spark plug holes to lift the cylinder head and the danger of stripped threads is always present.



| Order No. | Description |
|------------|--|
| SPT-10 | 10 m/m Packard |
| SPT-14 | 14 m/m (V8-60 Ford) |
| SPT-18 | 18 m/m (V8-85 Ford) |
| SPT-25 | 7/8-18 |
| SPC-4 | 4 Step Counterbore |
| SPT-40 Set | Contains one each of the above put up in very fine wood box. |

Axle Rethreading Die



This Axle Rethreading Die is used for rethreading axles without removing them from the housing.

Wheels removed with difficulty using the knock-off type wheel puller the threads are occasionally damaged. This Axle Rethreading Die will rechase the threads quickly. The die is split for quick application and is fitted to the threads at the back end of the axle. ALWAYS APPLY THE TOOL TO THE REAR OF THE THREAD AND BACK IT OFF.

Has the following S.A.E. thread sizes: 5/8", 3/4", 7/8", 1", 1 1/8" and 1 1/4". AD-10—Length 11".

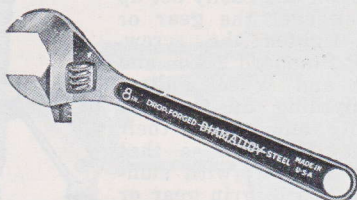
Scratch Awl



This Scratch Awl is not a 10c item, but a Quality Tool. The blade extends completely through the handle. Highly ground and polished. Used for Tire Work and many miscellaneous uses. Priced right for the DeLuxe Awl. No. SA-800

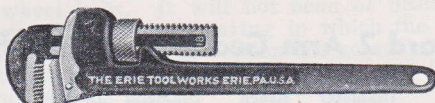
PROVEN QUALITY

Adjustable Wrenches (Not Replaceable)



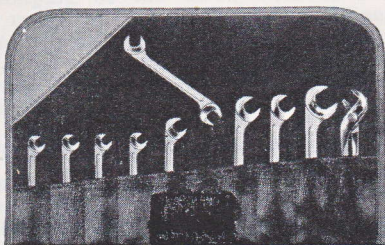
| Ord. No. | Length | Ord. No. | Length |
|----------|--------|----------|--------|
| AJ-4 | 4" | AJ-10 | 10" |
| AJ-6 | 6" | AJ-12 | 12" |
| AJ-8 | 8" | | |

Pipe Wrenches



| Ord. No. | Length | Ord. No. | Length |
|----------|--------|----------|--------|
| PW-6 | 6" | PW-14 | 14" |
| PW-8 | 8" | PW-18 | 18" |
| PW-10 | 10" | | |

IGNITION WRENCH SET



Order No. KIW & KIW-S

Itemized Listing of Sets as Noted Below

| Ord. No. | System | Opening Size | Length |
|----------|------------|-----------------------|--------|
| IW81 | Auto-Lite | 13/64" 15°x15/64" 60° | 3 " |
| IW82 | Bosch | 15/64" 15°x13/64" 60° | 3 " |
| IW83 | Delco | 7/32" 15°x 1/4 " 60° | 3 " |
| IW84 | Remy | 1/4 " 15°x 7/32" 60° | 3 " |
| IW85 | Eisemann | 9/32" 15°x 5/16" 60° | 3 1/2" |
| IW86 | Remy | 5/16" 15°x 9/32" 60° | 3 1/2" |
| IW87 | Ger. Bosch | 11/32" 15°x 3/8 " 60° | 4 " |
| IW88 | General | 3/8 " 15°x11/32" 60° | 4 " |
| IW89 | General | 7/16" 15°x 1/2 " 60° | 4 1/2" |
| PF-5 | | Steel Point File | |
| FG-15 | | Ignition Feeler Gauge | |
| P-1 | | Ignition Plier | |
| ST-2 | | Ignition Neon Driver | |

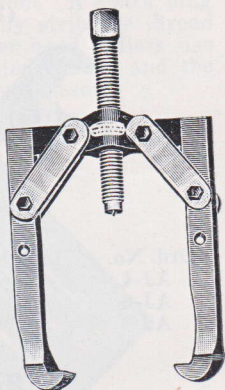
No. KIW—Contains 9 Wrenches and Plier as illustrated.

No. KIW-S—Contains one each of all items shown above in kit.

"MAC" ALLIED TOOLS

Steelgrip Pullers

Fast in action and easily set up — just hook over the gear or wheel and tighten the screw. STEELGRIP Standard 2-arm and 3-arm Gear and Wheel Pullers will pull anything up to their rated capacity and within their arm's reach. Designed so that arms cannot slip off; with sufficient hook length to grip gear or wheel securely. Arms and yokes are forged from special analysis, heat treated steel. The steel forcing screw is also heat treated for strength and to prevent flaring or upsetting.



Standard 2 Arm Gear and Wheel Pullers

| Number | Diameter | Reach | Diameter Screw | Length Screw | Hole Adjustment |
|------------|----------|---------|-------------------|-----------------|--------------------|
| 1001 | 6" | 3 1/4" | 1/2" | 6" | 1 hole |
| 1001A | 6" | 5 1/2" | 1/2" | 7" | 2 hole |
| 1002 | 8" | 5 1/2" | 5/8" | 8" | 1 hole |
| 1002A | 8" | 8 1/2" | 5/8" | 9" | 3 hole |
| 1003 | 12" | 9" | 3/4" | 12" | 2 hole |
| 1003A | 12" | 15 1/2" | 3/4" | 12" | 3 hole |
| 1003 1/2 | 14" | 14" | 1" | 12" | 2 hole |
| 1003 1/2 A | 14" | 18" | 1" | 12" | 3 hole |
| 1004 | 18" | 15 1/2" | 1 1/4" | 16" | 2 hole |
| 1004A | 18" | 22" | 1 1/4" | 16" | 3 hole |

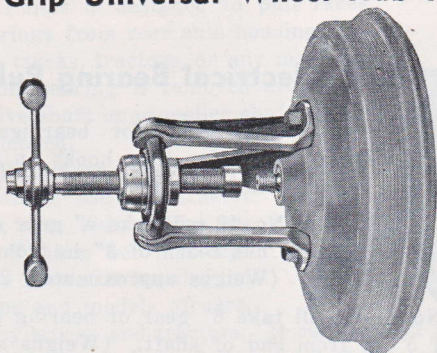
Standard 3 Arm Gear and Wheel Pullers

| Number | Diameter | Reach | Diameter Screw | Length Screw | Hole Adjustment |
|------------|----------|---------|-------------------|-----------------|--------------------|
| 1031 | 6" | 3 1/4" | 1/2" | 6" | 1 hole |
| 1031A | 6" | 5 1/2" | 1/2" | 7" | 2 hole |
| 1032 | 8" | 5 1/2" | 5/8" | 8" | 1 hole |
| 1032A | 8" | 8 1/2" | 5/8" | 9" | 3 hole |
| 1033 | 12" | 9" | 3/4" | 12" | 2 hole |
| 1033A | 12" | 15 1/2" | 3/4" | 12" | 3 hole |
| 1033 1/2 | 14" | 14" | 1" | 12" | 2 hole |
| 1033 1/2 A | 14" | 18" | 1" | 12" | 3 hole |
| 1034 | 18" | 15 1/2" | 1 1/4" | 16" | 2 hole |
| 1034A | 18" | 22" | 1 1/4" | 16" | 3 hole |

Arms are interchangeable with those on 2-arm Pullers.

PROVEN QUALITY

Steel Grip Universal Wheel Hub Pullers



Here is the tool needed in every automotive service and repair shop. The engineering features developed in this puller are of the highest degree of accuracy, power and range making it simple to remove the most difficult wheel hubs. It will not bend or destroy the wheel lugs. The sliding bearing in which the forcing screw rides and a floating cap on the screw end allow a straight, accurate pull without distorting or injuring the threads on the axle.

The floating cap end of the alloy forcing screw centers perfectly on the axle. The forged drive hammer handle comes as standard equipment and is notched for lock-on feature. This rugged puller has three sliding arms which are quickly adjustable and can be adapted to any hub regardless of number of wheel studs used and where the hub bolt circle diameter does not exceed $7\frac{1}{2}$ ". The sliding bearing feature allows for bumping of the screw without driving the hub further upon the shaft, and allows the seal of the hub and shaft to be broken.

No. H-50, 3-arm wheel hub puller, complete, ready for use, assembled with 2-handed striking wrench. Cadmium finish. Weight $11\frac{1}{2}$ lbs.

Armstrong-Bray Timing Gear Puller

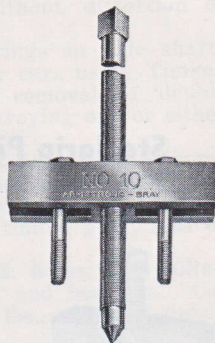
Pulls Timing Gears, Fan Pulleys, Crank Shaft Balancers, Cam Gears and Inside Pulling Jobs.

This inexpensive tool is essential in service shops for proper pulling of generator gears, bearings, bearing cones, ball races and similar parts.

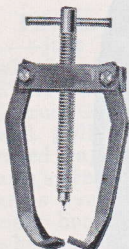
Used in conjunction with the **No. 950 ARMSTRONG-BRAY** Bearing Separator which is drilled and tapped to receive its attaching screws, it is unequalled where space is limited, in hard to reach places, and where parts are closely fitted.

The forcing screw is extra long to permit easy removal of Chevrolet fan pulleys (thru the crank hole without removing the radiator), for pulling Buick crank shaft gears and for impulse neutralizers on all Chrysler-built cars and for all timing gears tapped for cap screws.

No. 10—Complete with $11\frac{1}{2}$ " forcing screw. Milled steel yoke and two $\frac{3}{8}$ " cap screws, weight 5 lbs.



"MAC" ALLIED TOOLS



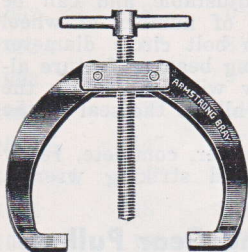
Electrical Bearing Puller

Will pull generator bearings, small gears, etc. Has long hooks on jaws to reach bearing race.

Size No. 13 will take 4" gear or bearing and has reach of 3" in from end of shaft. (Weighs approximately 2 lbs.)

Size No. 13-A will take 6" gear or bearing and has reach of 5" in from end of shaft. (Weighs approximately 2½ lbs.)

No. 13-A Special will take 6" gears or bearings and has reach of 8" in from end of shaft. (Weighs approximately 3 lbs.)

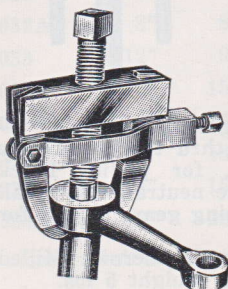


Steelgrip Fan Propeller Puller

Used for removing fan propellers, special gears, bearings, etc. Has long hooks on jaws to reach in for bearing race. Has reach of 3¼" and is constructed so as to take large diameter work for its size. Arms fit snug in hub so that they "stay put" when adjusted to work. Weighs approximately 1 lb.

No. TL-18

Steelgrip Pitman Arm or Steering Arm Puller



This extremely strong small puller is used to remove Pitman arms, gears, pulleys and bearings. Puller arms can be tightened on part to be pulled and cannot slip. Jaws open 2-15/16". Has reach of 1⅞".

No. P-48 — Steelgrip Pitman Arm Puller. (Weighs approximately 3½ lbs.)

PROVEN QUALITY

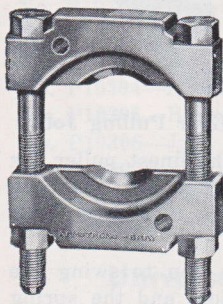
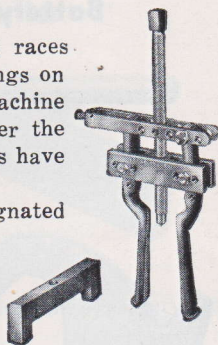
Internal Puller

This Puller is designed to pull races and bearings from rear axle housings on all cars, trucks, tractors, or any machine where the bearing is removed after the axle, drive shaft or propeller shafts have been removed.

It will remove graphite impregnated brass collars used in tractor clutches, rear axle grease retainers, Timken bearing cups from the rear axle housing on all makes and models of cars, and many trucks and tractors. It can be used for pulling bearing races from front wheels on large trucks and tractors of all kinds.

Capacity—Reach 4", diameter 1½ to 6" I.D.

No. 61 ARMSTRONG-BRAY Internal Puller, complete with Housing Bar. Weight 5 lbs.



Bearing Separator and Pulling Attachment

This "splitting" tool provides means for quickly and easily separating and gripping double bearings, closely fit gears and small diameter pinions or sleeves.

Each half of the tool has a wedge shaped arc. Assembled behind a bearing or gear, these segments can be drawn together by two forcing screws and wedged in behind the bearing or gear, thus providing a uniform "all around" grip that cannot be obtained by any other method. In this way the part can then be quickly and easily "pulled" by a gear or bearing puller (see illustrations) without distortion or damage.

Widely used for removing bearings on axle shafts of Chrysler-built, Nash, and other cars using Timken bearings, when they permit the removal of double bearings without damaging or destroying one or either bearing.

No. 950 is tapped with ⅜" holes, for pulling generator bearings, gears, races and other small work. Capacity up to 2¼" outside diameter. Weight 1¼ lbs., cadmium finish. Use with No. 10 timing gear, 1001 or 1002 series.

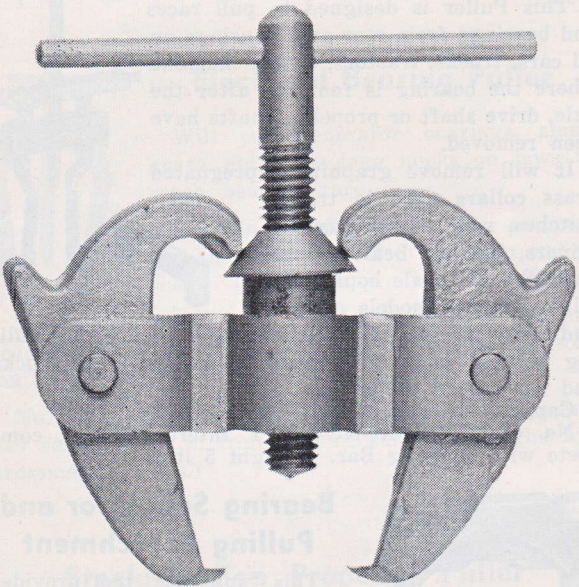
No. 951, tapped with ⅝" S.A.E. holes, for pulling pinions, cam gears, timing gears, and bearings. Capacity up to 4¼" O.D. Weight 5 lbs., cadmium finish. Use with Nos. 1002 or 1003 series.

No. 952, tapped with ⅝" S.A.E. holes for pulling larger sized gears and bearings. Capacity up to 5¾" O.D. Weight 11 lbs. Cadmium finish. Use with Nos. 1003 and 1003½ series.

No. 952-A, same as No. 952 except has longer forcing screws to take diameters up to 9" O.D. Weight 12 lbs. Cadmium finish. Use with Nos. 1003 and 1003½ series.

"MAC" ALLIED TOOLS

Battery Terminal Puller



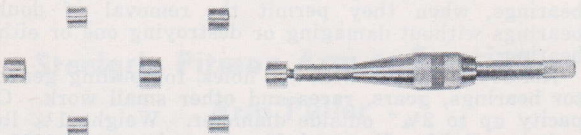
Also Adaptable To Many Small Gear Pulling Jobs

This new tool is unquestionably the finest puller for battery terminal work on the market. It has been **thoroughly tested on the job**, where it proved itself superior to other terminal pullers.

The unusual construction permits you to swing the jaws open to place them on the job, and the spring action closes and holds them in position while the pressure screw is adjusted and tightened.

No. TP-210

Clutch Aligning Tool

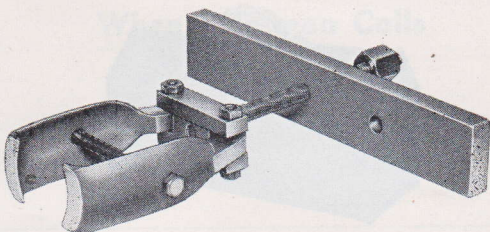


The clutch disc and pressure plate must be centralized and in perfect alignment with the pilot bearing in the flywheel to assure perfect performance. Therefore it is very essential that proper pilots are used when assembling the clutch—pilots which are machined true and heat treated to assure long service. **One tool—nine pilots**, providing diameters from .375 to .984. **Bright nickel finish.**

No. CA-20

PROVEN QUALITY

Pinion Gear Puller



This puller is a necessary addition to shops servicing General Motors Cars.

Saves time and labor and eliminates the necessity of removing the drive shaft and rear axle to pull pinion gear on regular or hypoid gears by using this wide, thin-lipped jaw pinion puller. Special tension screw through the jaws assures a firm grip on the gear. Saves readjusting brakes.

No. P10300—G. M. Pinion Puller

No. P10301—Housing Bar Only

No. P10302—Forcing Screw Less Nut

No. P10303—Nut only for Forcing Screw

No. P10304—Puller Block only Less Bolt-Nuts

No. P10305—Bolts and Nuts for Puller Block

No. P10306—Jaw Adjusting Bolt-Nut, 4½"

No. P10300J—Puller Jaws, Pair

Clutch Pilot Bearing Puller

Universal Pilot Bearing Puller

Here is a tool of universal use. Simple in operation, efficient, sturdy and well constructed. This bearing puller handles all sizes of sleeve type bearings from ½" to 1½" inside diameter—such units as flywheel bearings, pump bearings, generator bearings, etc. The finger tip adjustment quickly sets the puller to a tight fit inside the bearing and with a few quick taps of the sliding hammer the bearing is removed. **Bright nickel finish.**

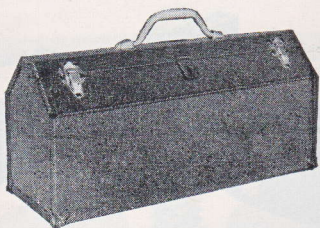
BP-223—Complete

BP-223J—Jaws Each



"MAC" ALLIED TOOLS

Gable Top Service Box



This heavy-duty mechanics' box with welded seams and full tote tray is ideal for repairmen, industrial workers and garagemen. Full length continuous steel hinges welded to covers and bottom corners reinforced with corner irons. Heavy, non-slipping tubular handle on tray convenient for carrying on the job; includes dividers for standard socket set. Offset box cover gives added strength. Baked wrinkle enamel.

Dimensions—Top Tray 18 $\frac{1}{4}$ " Long; 6 $\frac{7}{8}$ " Wide (With built in socket tray); 2" Deep.

Box—19" Long; 7" Wide; 9" Deep at gable.

Ord. No. MB-5

Mechanics Tool Box



This Mechanics' Tool Box is designed to cover needs for a good Bench Type Box.

Front Cover slides back into lid when box is opened.

Top Tray and three good sized drawers.

Made solid and finished in Black Krinkle Finish. Has Hasp for locking box.

Overall dimensions 20 $\frac{1}{2}$ "x9 $\frac{1}{4}$ "x10 $\frac{1}{4}$ "; top compartment 20 $\frac{1}{8}$ "x8 $\frac{7}{8}$ "x2 $\frac{1}{2}$ "; top drawer 19 $\frac{5}{8}$ "x8"x1 $\frac{1}{2}$ "; center drawer 19 $\frac{5}{8}$ "x8"x2"; bottom drawer 19 $\frac{5}{8}$ "x8"x2 $\frac{7}{8}$ "; bottom space 20"x9"x1".

No. MB-20

When Salesman Calls

This image shows a single sheet of white paper with horizontal blue or grey ruling lines. The lines are evenly spaced and run across the width of the page. There is no handwriting or printed text on the paper. A small, faint yellowish mark is visible near the top right corner.

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